UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

AUGUST 1967

PART II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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Bureau of Commercial Fisheries
Tuna Resources Laboratory
P. O. Box 271
La Jolla, California 92038

*Part 1 - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

LABORATORY MERGER APPROVED

Mr. Harold E. Crowther, Director of the Bureau of Commercial Fisheries, formally approved the merger of the Bureau's Tuna Resources Laboratory and California Current Resources Laboratory on June 7.

In approving the reorganization Mr. Crowther stated, "I think the proposed new organization is a tremendous improvement over the present arrangement, and I commend Dr. Ahlstrom and those that worked with him in developing the new structure." Regional Director Gerald V. Howard has designated the new laboratory as the Fishery-Oceanography Center. Dr. E. H. Ahlstrom has been appointed as the first director of the combined laboratories.

The plan for reorganization was worked out in detail over a period of several months by a committee headed by Dr. E. H. Ahlstrom and aided by Dr. Richard R. Whitney, Dr. Glenn A. Flittner, and Mr. David Kramer. The committee has stated in a report that the basic research goal of the laboratory is to "make possible the rational use of fishery resources so that these resources will not be wasted. . .by underutilization as well as by overutilization." This goal was further divided into three stages: 1) "to evaluate potential fishery resources not yet utilized (e.g. hake, saury, red crabs, etc.); 2) to develop new and underexploited fishery resources (anchovy, skipjack, etc.); and 3) to optimize the harvest of fishery resources already developed (e.g. yellowfin tuna, sardine)."

The former California Current Resources Laboratory included seven research programs and the Tuna Resources Laboratory, four. As a result of the reorganization these have now been combined into four programs titled, 1) Fishery-Oceanography, headed by Dr. Glenn A. Flittner, 2) Behavior and Physiology under Dr. Reuben Lasker, 3) Population Dynamics under the direction of Dr. Paul E. Smith and 4) Operations Research under Mr. Frank J. Hester.

A feature of the Fishery-Oceanography Center reorganization plan is that it provides for a Research Program Planning Board consisting of the four program leaders and headed by the Assistant Director. This group will be responsible for the day-to-day conduct of research activities and will advise and assist the Director on the most expeditious methods of attaining research objectives.

Another innovation of the reorganization is a Scientific Services group which administratively treats as a unit those specialties regarded as services to research programs. These service units, under the direction of the Assistant Director, include Statistical-Programming, the Office of Editor, the Library, and Instrumentation.

The new mailing address is as follows:

U.S. Department of the Interior
Bureau of Commercial Fisheries
Fishery-Oceanography Center
P. O. Box 271
La Jolla, California 92037

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
AUGUST 1967

Acknowledgements

The following organizations and stations contributed data for the August 1967 charts:

U. S. Bureau of Commercial Fisheries Exploratory Fishing and Gear Research Base, Seattle, Washington
U. S. Bureau of Commercial Fisheries Biological Laboratories La Jolla, California; Honolulu, Hawaii; and Seattle, Washington
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U. S. Coast Guard Air Station, San Diego, California
U. S. Coast Guard, Rockaway
U. S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U. S. Naval Weather Service, Fleet Numerical Weather Facility, Monterey, California
Environmental Science Services Administration
U. S. Weather Bureau, San Diego, California
U. S. Weather Bureau Forecast Center, Los Angeles, California
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Kelco Company, San Diego, California
Oregon State University, Department of Oceanography, Corvallis, Oregon, R/V Yaquina
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Ships Princess, Martinac, Californian

Charts

Figure 1.--Mean sea surface temperatures (° F) derived from approximately 9000 observations. Squares show temperatures at weather ship stations. Numerals on shore are temperatures at coastal and lightship stations.

Figure 2.--Deviation of sea surface temperatures (° F) from long term charts on H. O. 225. Hatched areas are colder in 1967.

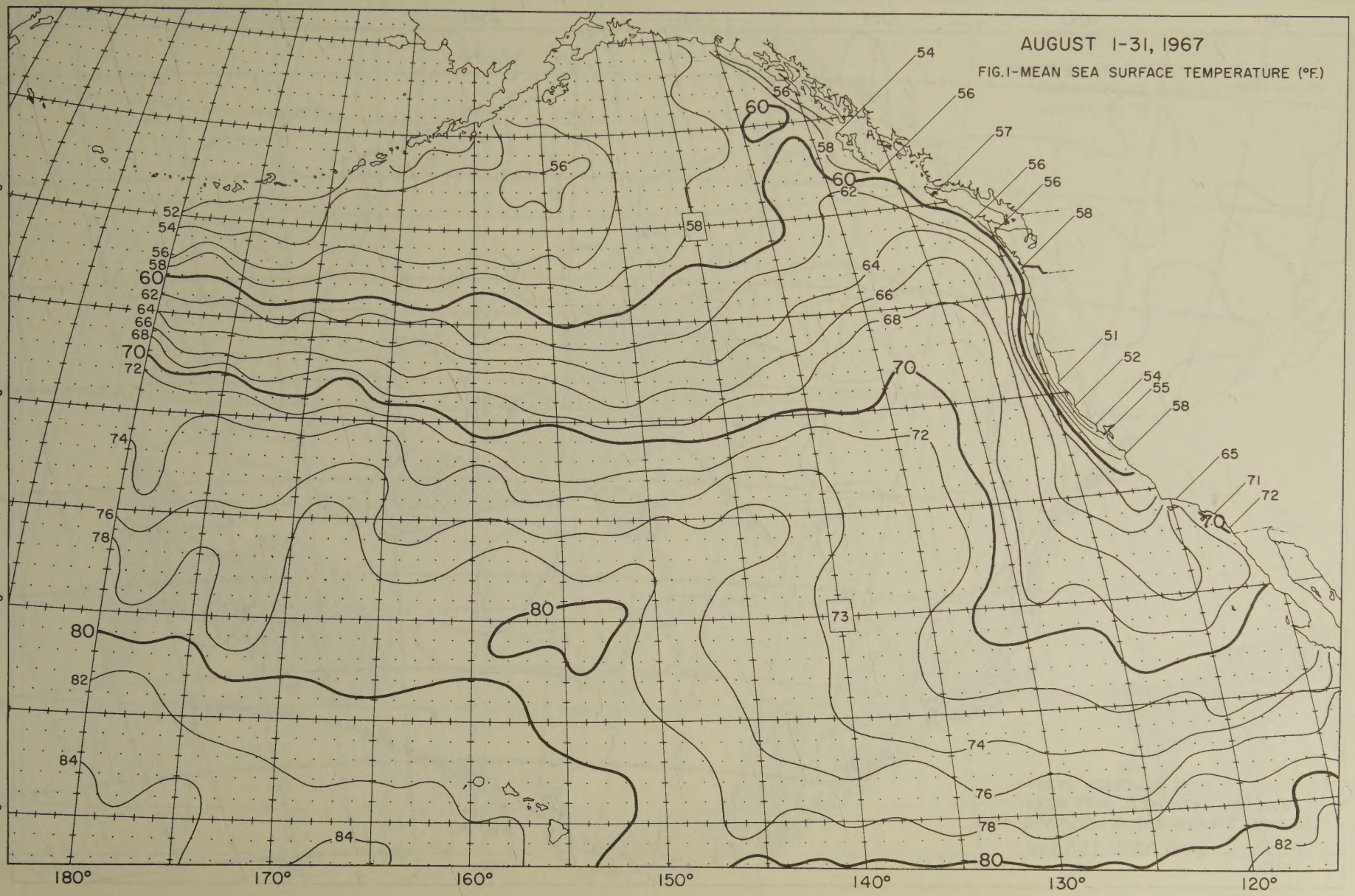
Figure 3.--Deviation of sea surface temperatures (° F) from those of August 1966. Hatched areas are colder in 1967.

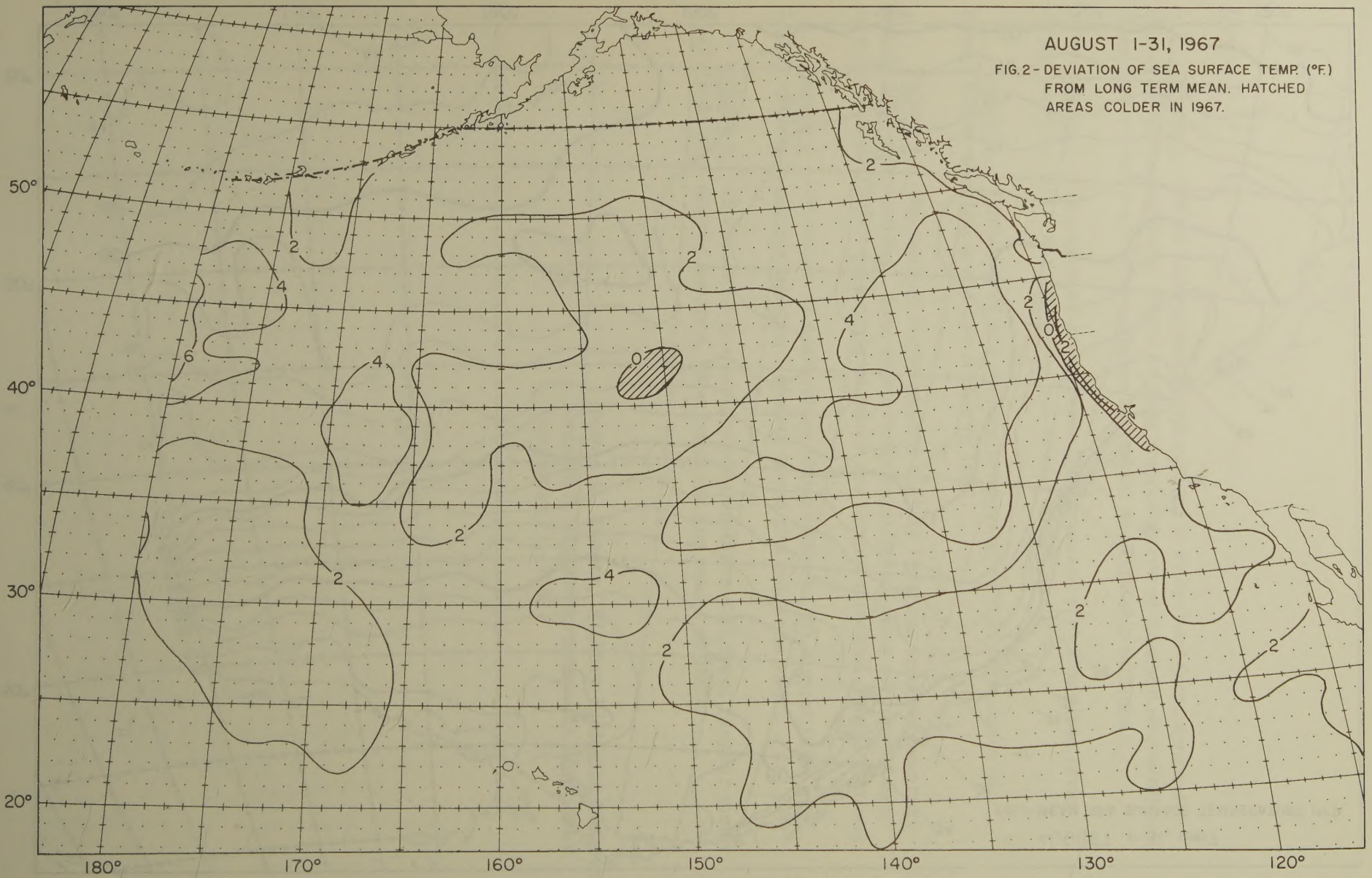
Figure 4.--Sea surface temperatures (° F) by 1-degree squares, approximately 3000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

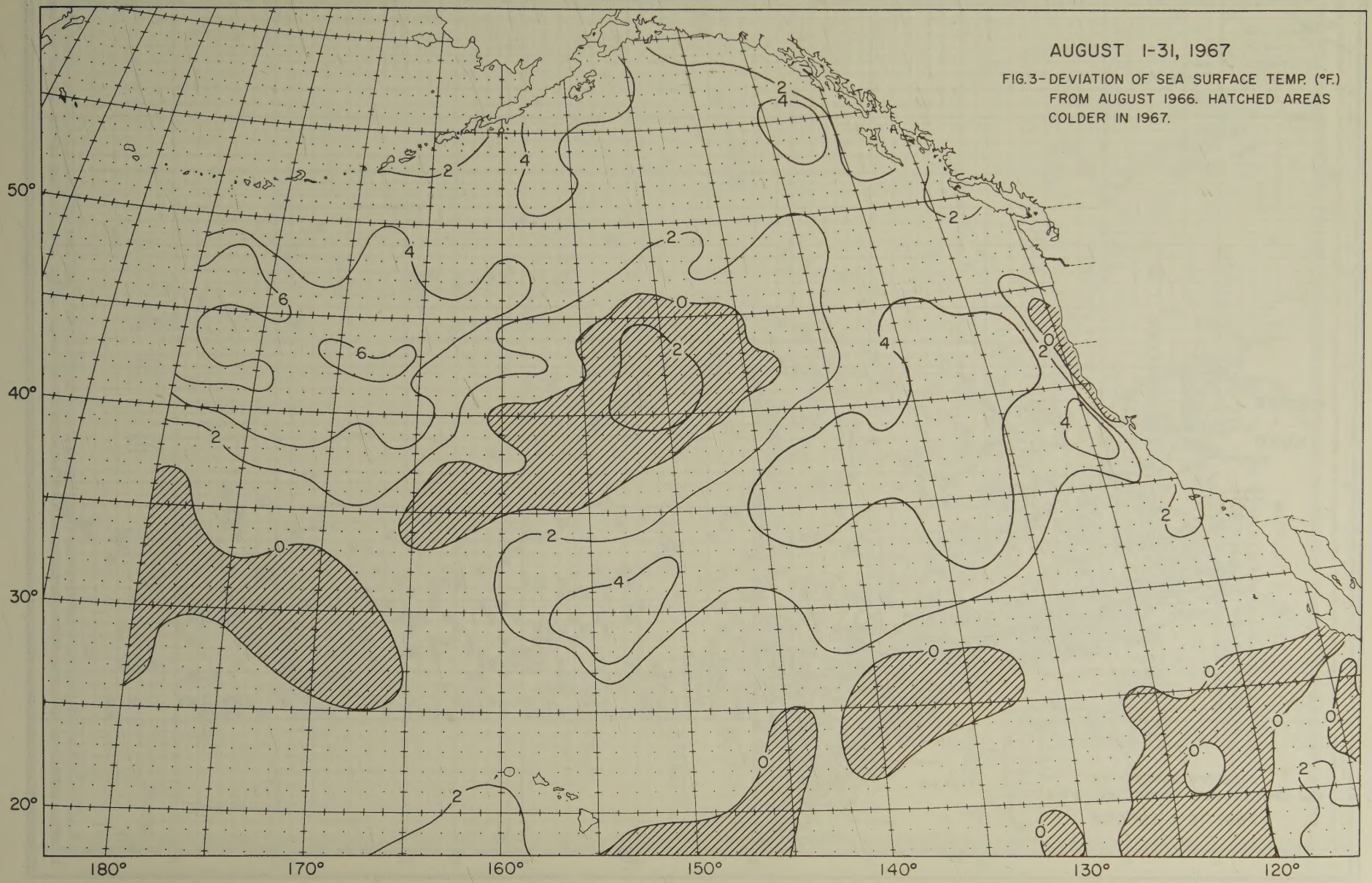
Figure 5.--Deviation of sea surface temperatures (° F) August 1967-August 1966 by 1-degree squares. Shaded areas are colder in 1967.

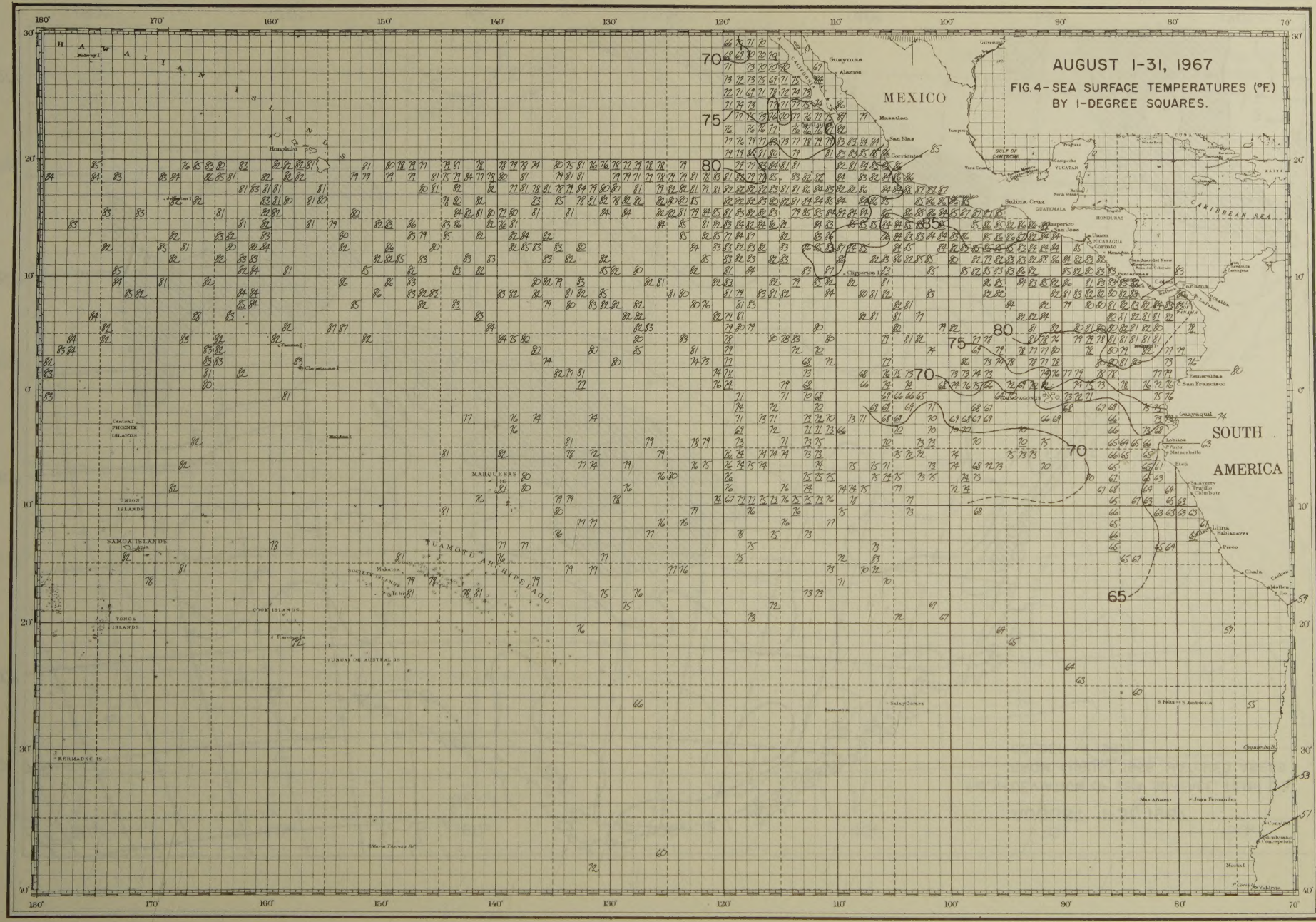
Figure 6.--Deviation of sea surface temperatures (° F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder in 1967.

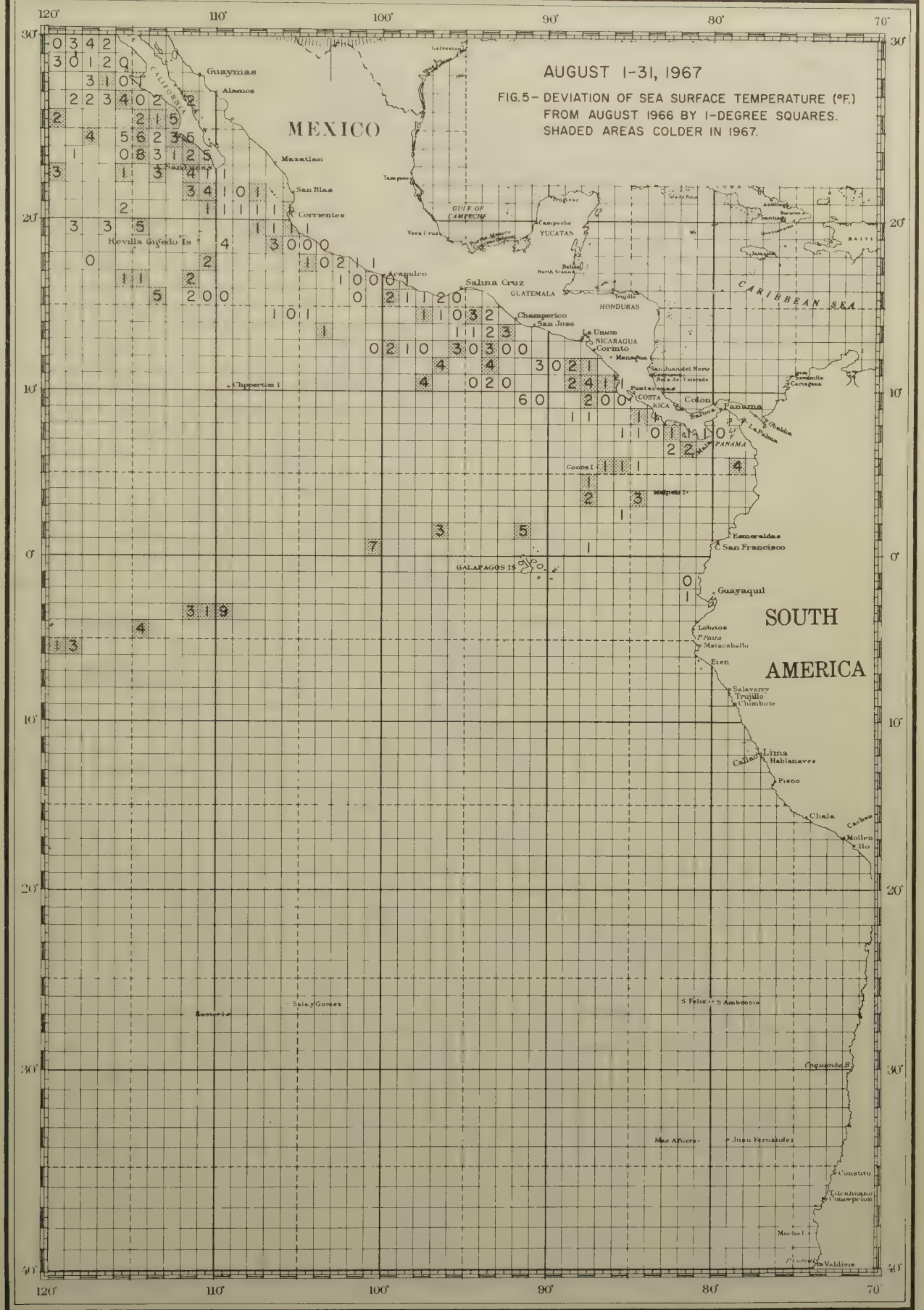
James A. Renner, Fishery Biologist (General)
Kenneth S. Raymond, Scientific Illustrator
September 11, 1967

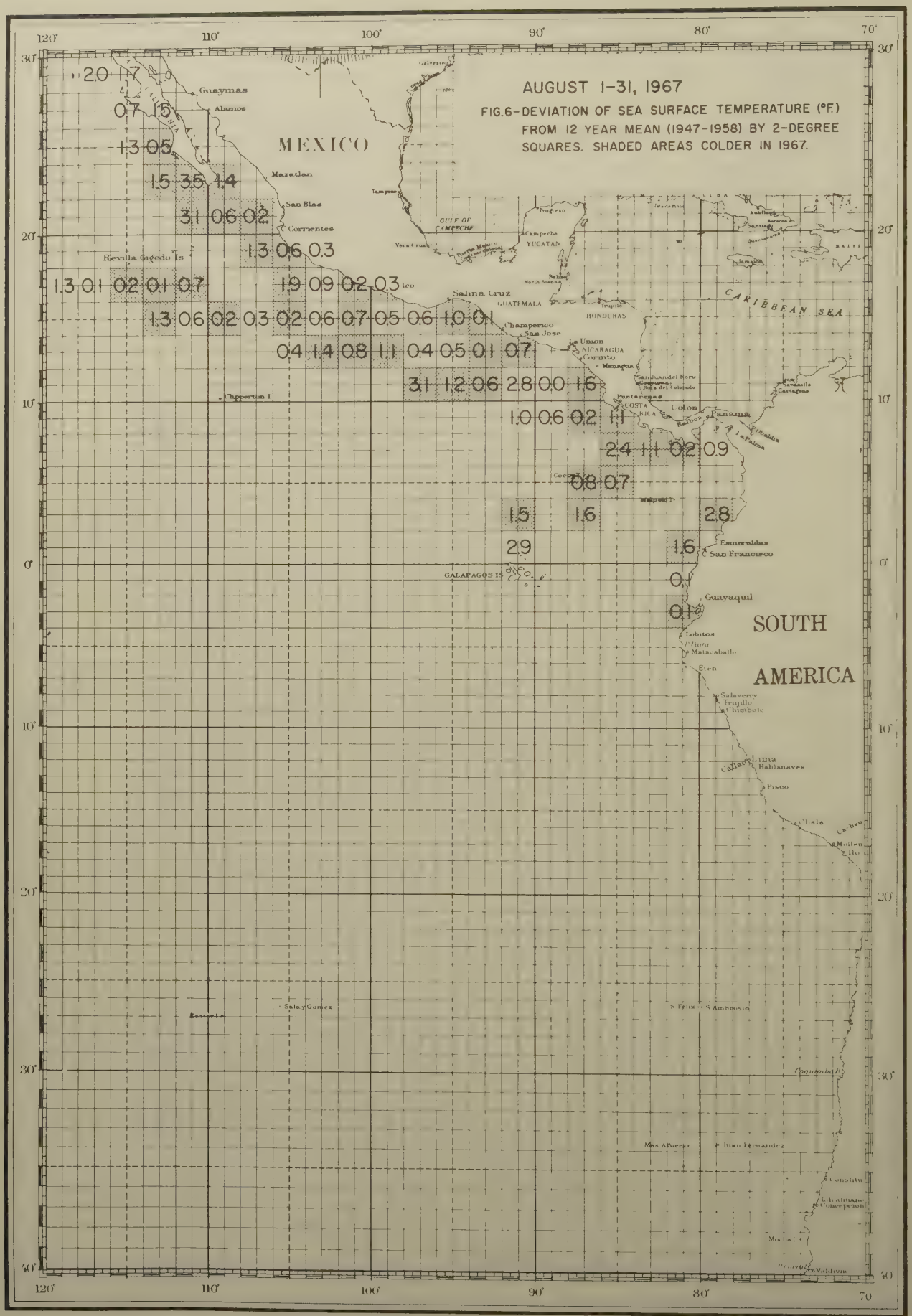

AUGUST 1-31, 1967
FIG.1-MEAN SEA SURFACE TEMPERATURE (°F.)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

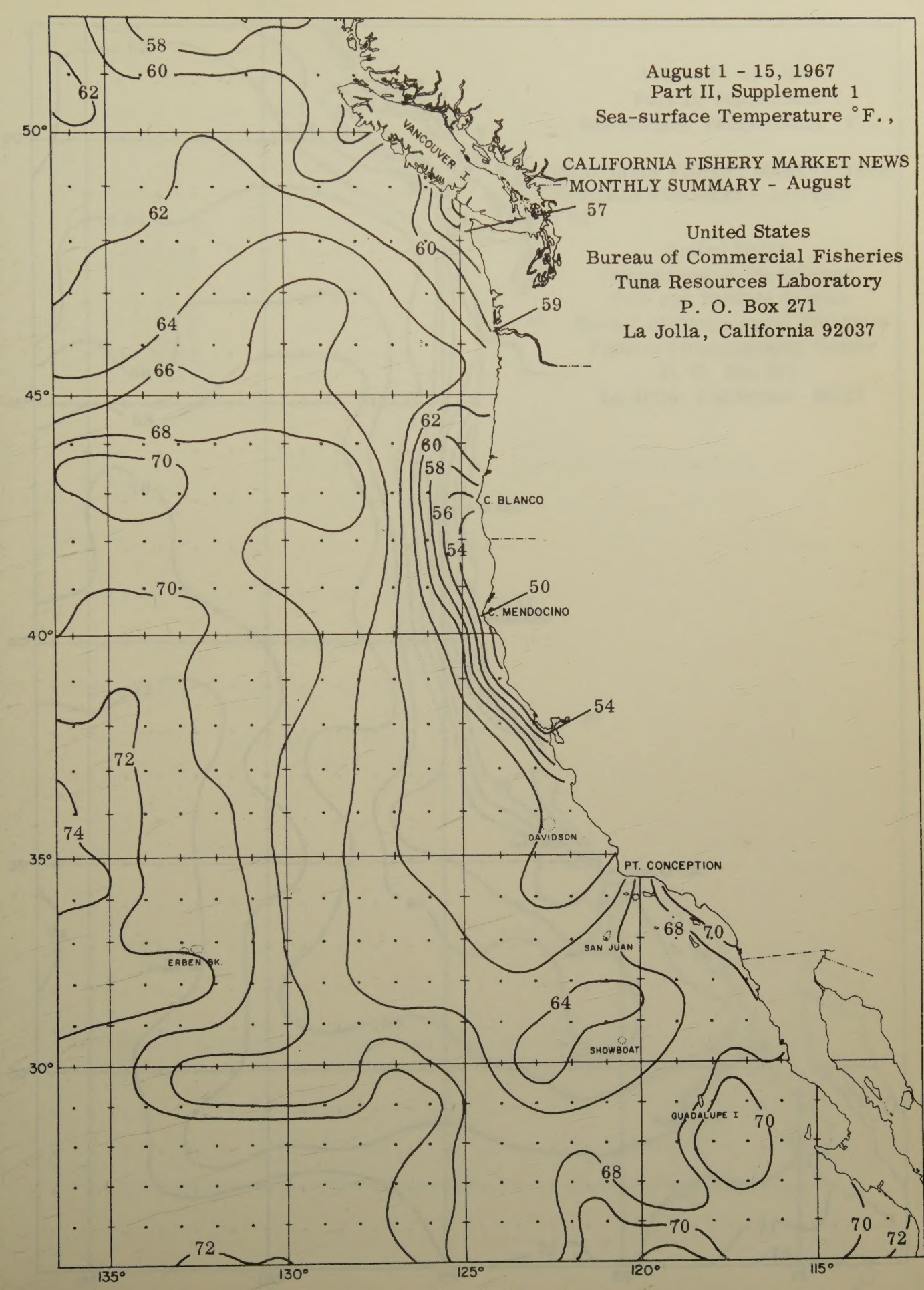

AUGUST 1-31, 1967
FIG. 2 - DEVIATION OF SEA SURFACE TEMP. (°F.) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1967.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
0
2
4
6


AUGUST 1-31, 1967
FIG.3- DEVIATION OF SEA SURFACE TEMP. (°F.) FROM AUGUST 1966. HATCHED AREAS COLDER IN 1967.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


AUGUST 1-31, 1967
FIG. 4 - SEA SURFACE TEMPERATURES (°F.)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
CARIBBEAN SEA
HAWAIIAN
ISLANDS
Honolulu
Midway I.
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Acapulco
Salina Cruz
GUATEMALA
HONDURAS
NICARAGUA
Corinto
Managua
Puntarenas
Panama
Balboa
Cristobal
Colon
Manzanillo
Tampico
Progreso
Campeche
YUCATAN
Vera Cruz
Belize
Swan Islands
CUBA
Galveston
GULF OF MEXICO
Jamaica
HAITI
Caracas
Maracaibo
Curacao
Trinidad
Barbados
Emeraldas
San Francisco
Guayaquil
Salaverry
Trujillo
Chimbote
Lobitos
Talara
Zorritos
Lima
Callao
Pisco
Chala
Mollendo
Arica
Iquique
Antofagasta
Valparaiso
Juan Fernandez
Mas Afuera
Mas a Tierra
Easter I.
Sala y Gomez
San Felix
San Ambrosio
Caldera
Coquimbo
Concepcion
Corral
Mocha I.
Valdivia
Canton I.
PHOENIX
ISLANDS
Fanning I.
Christmas I.
Malden I.
UNION
ISLANDS
SAMOA ISLANDS
Suwarrow I.
MARQUESAS
Nukuhiva
TUAMOTU ARCHIPELAGO
SOCIETY ISLANDS
Mehetia
Papeete
Tahiti
COOK ISLANDS
Rarotonga
TONGA
ISLANDS
TUBUAI OR AUSTRAL IS.
KERMADEC IS.
Macauley I.
Raoul I.
70
75
80
85
65
60
55
50
45
40
30
20
10
0
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°


AUGUST 1-31, 1967
FIG. 5 - DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM AUGUST 1966 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1967.
MEXICO
CALIFORNIA
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
GUATEMALA
HONDURAS
Champerico
San Jose
La Union
NICARAGUA
Corinto
Managua
COSTA RICA
Puntarenas
Coco I
GALAPAGOS IS
Esmeraldas
San Francisco
Guayaquil
SOUTH AMERICA
Lobitos
Talara
Mataccaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Mollendo
Ilo
Arica
Iquique
Mejillones
Antofagasta
Coquimbo
Juan Fernandez
Valdivia
Mocha I
Concepcion
Talcahuano
Constitu
Sala y Gomez
S Felix
S Ambosio
Tampico
Progreso
Campeche
YUCATAN
GULF OF CAMPECHE
Vera Cruz
Belize
North Stann
CARIBBEAN SEA
Trujillo
Jamaica
HAITI
Barranquilla
Cartagena
Colon
Panama
PANAMA
Chiriqui
Bahia
La Palma
Chepperton I
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°


AUGUST 1-31, 1967
FIG.6-DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1967.
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°
MEXICO
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Salina Cruz
GUATEMALA
HONDURAS
CARIBBEAN SEA
Champerico
San Jose
NICARAGUA
Corinto
Managua
COSTA RICA
Panama
Colon
GULF OF CAMPECHE
YUCATAN
Progreso
Campeche
Veracruz
Tampico
Belize
Trujillo
JAMAICA
HAITI
Chippertim I
GALAPAGOS IS
Guayaquil
SOUTH AMERICA
Lobitos
Talara
Malacabello
Eten
Salaverry
Trujillo
Chimbote
Callao
Lima
Huacho
Pisco
Chala
Caraveli
Mollendo
Ilo
Esmeraldas
San Francisco
Salas y Gomez
Coquimbo
Constitucion
Concepcion
Valdivia
2.0 1.7
0.7 1.5
1.3 0.5
1.5 3.5 1.4
3.1 0.6 0.2
1.3 0.6 0.3
1.3 0.1 0.2 0.1 0.7
1.9 0.9 0.2 0.3
1.3 0.6 0.2 0.3 0.2 0.6 0.7 0.5 0.6 1.0 0.1
0.4 1.4 0.8 1.1 0.4 0.5 0.1 0.7
3.1 1.2 0.6 2.8 0.0 1.6
1.0 0.6 0.2 1.1
2.4 1.1 0.2 0.9
0.8 0.7
1.5 1.6 2.8
2.9 1.6
0.1
0.1


August 1 - 15, 1967
Part II, Supplement 1
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - August
United States
Bureau of Commercial Fisheries
Tuna Resources Laboratory
P. O. Box 271
La Jolla, California 92037
VANCOUVER I.
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
SHOWBOAT
ERBEN BK.
GUADALUPE I
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°
58
60
62
64
66
68
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72
74
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59
56
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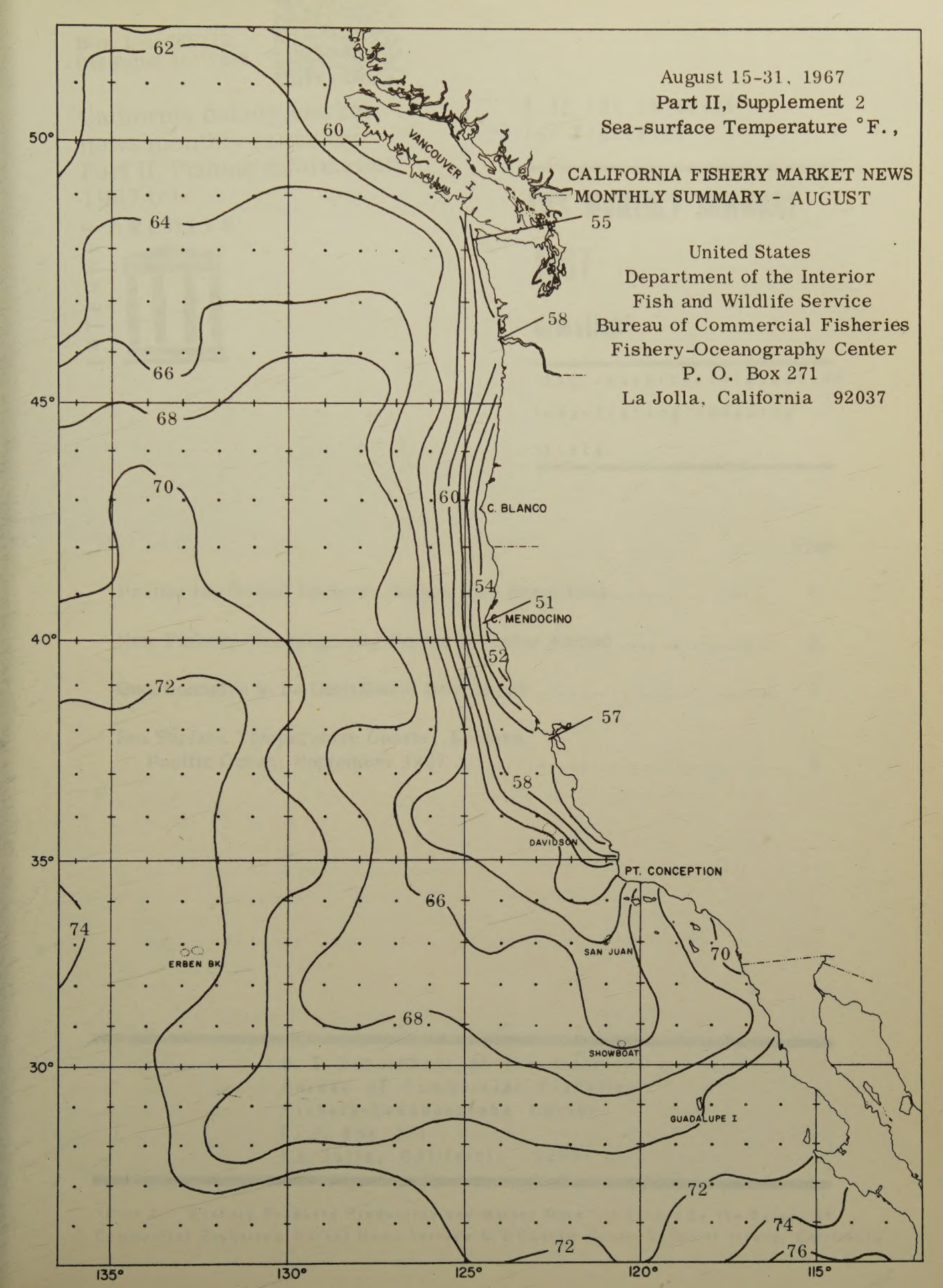
50


August 15-31, 1967
Part II, Supplement 2
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - AUGUST
United States
Department of the Interior
Fish and Wildlife Service
Bureau of Commercial Fisheries
Fishery-Oceanography Center
P. O. Box 271
La Jolla, California 92037
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70
72
74
76
VANCOUVER I.
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
SHOWBOAT
ERBEN BK.
GUADALUPE I
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°